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## I claim:

1	1. A method for adjusting the frequency response of a speaker system,
2	comprising the steps of:
3	anticipating a main speaker low frequency sonic output from pre-determined main
4	speaker low frequency characteristics;
5	determining compensation variables configured to adjust the main speaker sonic
6	output;
7	inputting the compensation variables into a user interface;
8	receiving an input signal;
9	producing a high-frequency signal from the input signal in response to the

- 2. The system of claim 1, further including the step of passing the high-frequency signal to a main speaker of the speaker system.
- 1 3. A crossover system for adjusting the frequency response of a speaker 2 system comprising:
- a user interface configured to receive user-adjustable variables indicative of main
- 4 speaker low frequency characteristics; and

compensation variables.

- a compensation circuit configured to produce a desired high-pass signal from an
- 6 input signal in response to the user-adjustable variables.

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- 4. The system of claim 3, wherein the compensation circuit further comprises:
  a desired transfer function circuit having frequency response characteristics
  analogous to a desired crossover-main speaker combination;
  an equivalent circuit having frequency response characteristics analogous to a main
  speaker; and
- a deconvolution circuit configured to deconvolve the main speaker characteristics
  from the desired crossover-main speaker combination characteristics.
- 5. The system of 3, wherein the user adjustable variables comprise a main speaker low frequency cutoff frequency.
- 1 6. The system of 3, wherein the user adjustable variables comprise a main 2 speaker low frequency damping factor.
  - 7. The system of 3, wherein the user adjustable variables comprise a speaker sensitivity factor.
- 1 8. The system of 3, wherein the user adjustable variables comprise a speaker 2 enclosure type.
- 9. The system of 3, wherein the user adjustable variables comprise a gain factor.

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to produce a compensated response.

1	10. A method for adjusting the frequency response of a speaker system,
2	comprising the steps of:
3	determining undesired sonic output characteristics for a main speaker; and
4	compensating for the undesired characteristics.
1	11. The method of claim 10, wherein the compensating step further comprises
2	the steps of:
3	inputting user adjustable settings indicative of main speaker low frequency
4	characteristics; and
5	producing a desired frequency response characteristics in response to the user
6	adjustable settings.
1	12. The method of claim 11, wherein the producing step further comprises the
2	steps of:
3	generating a combined system response from the user adjustable settings, the
4	combined system response having frequency response characteristics of a desired
5	combined system;
6	generating an equivalent speaker response from the user adjustable settings, the
7	equivalent speaker response having frequency response characteristics of the main speaker;
8	and

deconvolving the equivalent speaker response from the combined speaker response

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- 13. The method of claim 11, wherein the speaker characteristics comprise a low 1 frequency cutoff frequency.
- 14. The method of claim 10, wherein the speaker characteristics comprise a low 1 frequency damping factor. 2
- 15. The method of claim 10, wherein the speaker characteristics comprise a 1 speaker sensitivity factor. 2
- 1 16. The method of claim 10, wherein the speaker characteristics comprise a 2 speaker enclosure type.
  - 17. A system for adjusting the frequency response of a speaker system, comprising:
  - means for inputting user adjustable settings that define low frequency characteristics of a main speaker of the speaker system;
- 5 means for receiving an input signal; and
- 6 means for producing a high-frequency signal from the input signal in response to the user adjustable setting. 7
- 18. The system of claim 17, wherein the means for producing the high-1
- frequency signal further comprises means for setting a cutoff frequency for the high-2
- frequency signal. 3

- 1 19. The system of claim 17, wherein the means for producing the high-
- 2 frequency signal further comprises means for setting a gain for the high-frequency signal.